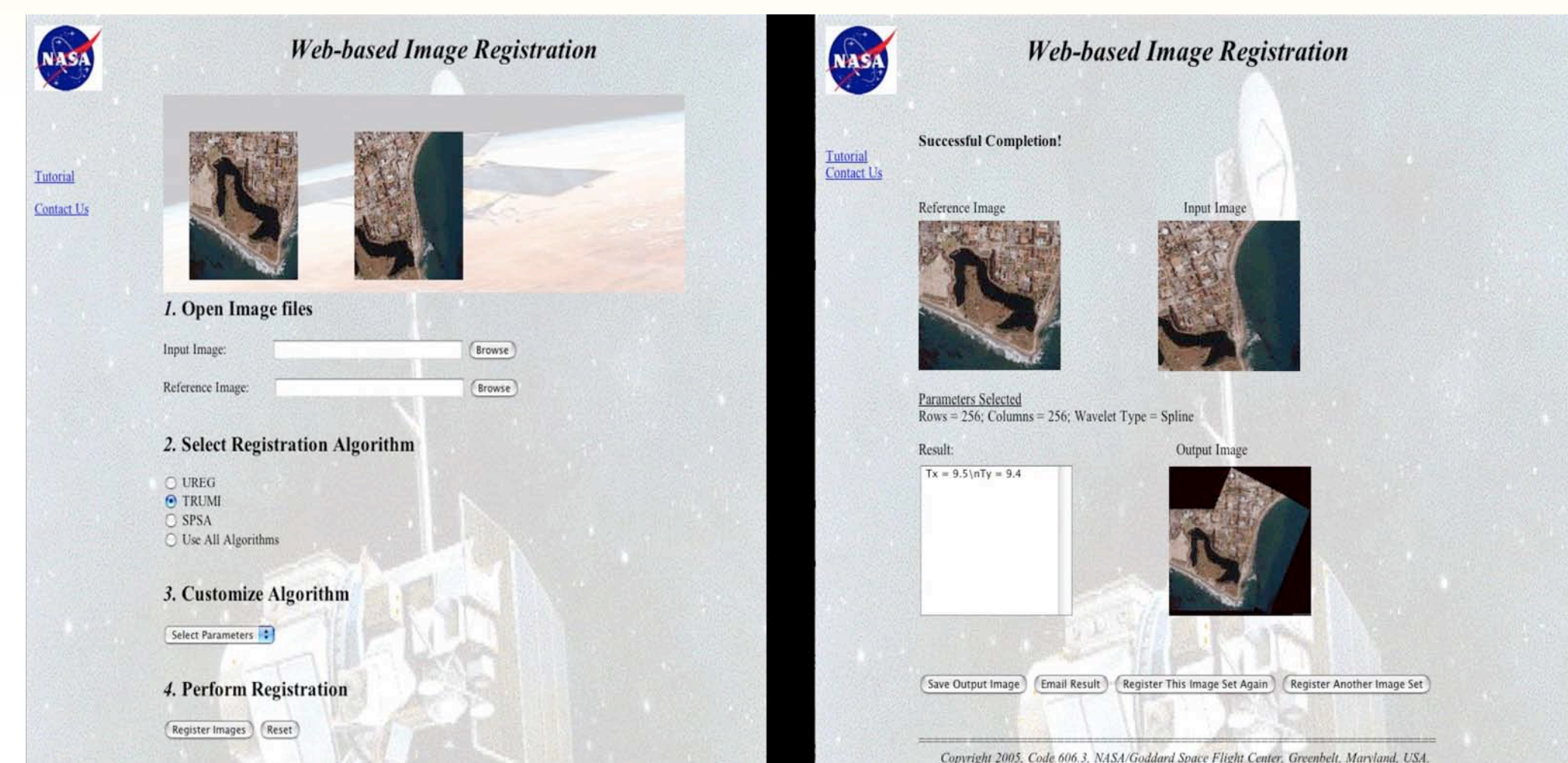
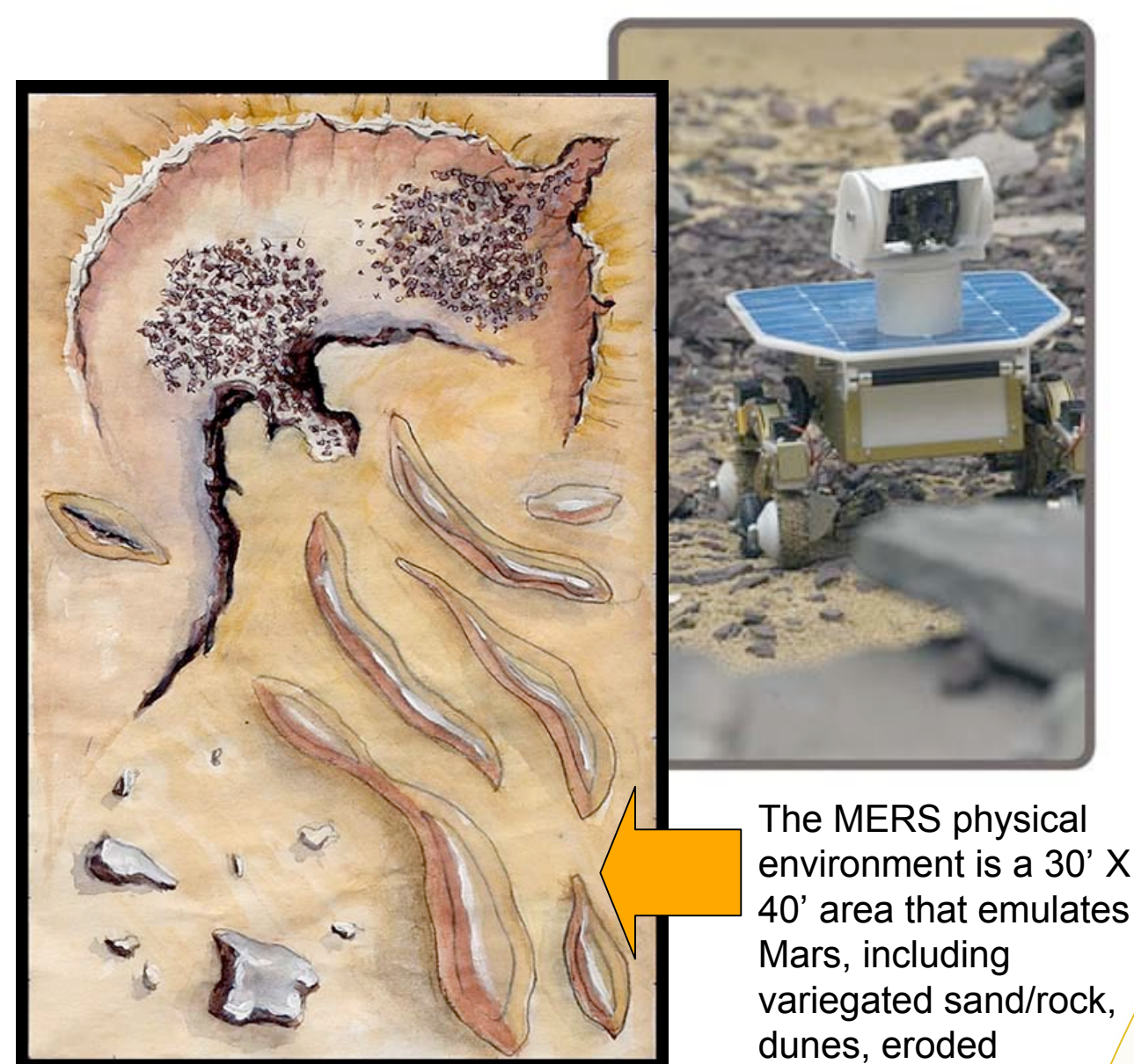


ADVANCED ARCHITECTURES AND AUTOMATION BRANCH (588)

Branch Head: Jacqueline LeMoigne-Stewart • Associate Branch Head: Barbie Medina



TARA, "Toolbox for Automated Registration and Analysis"



Multipurpose Exoterrain for Robotic Studies (MERS)

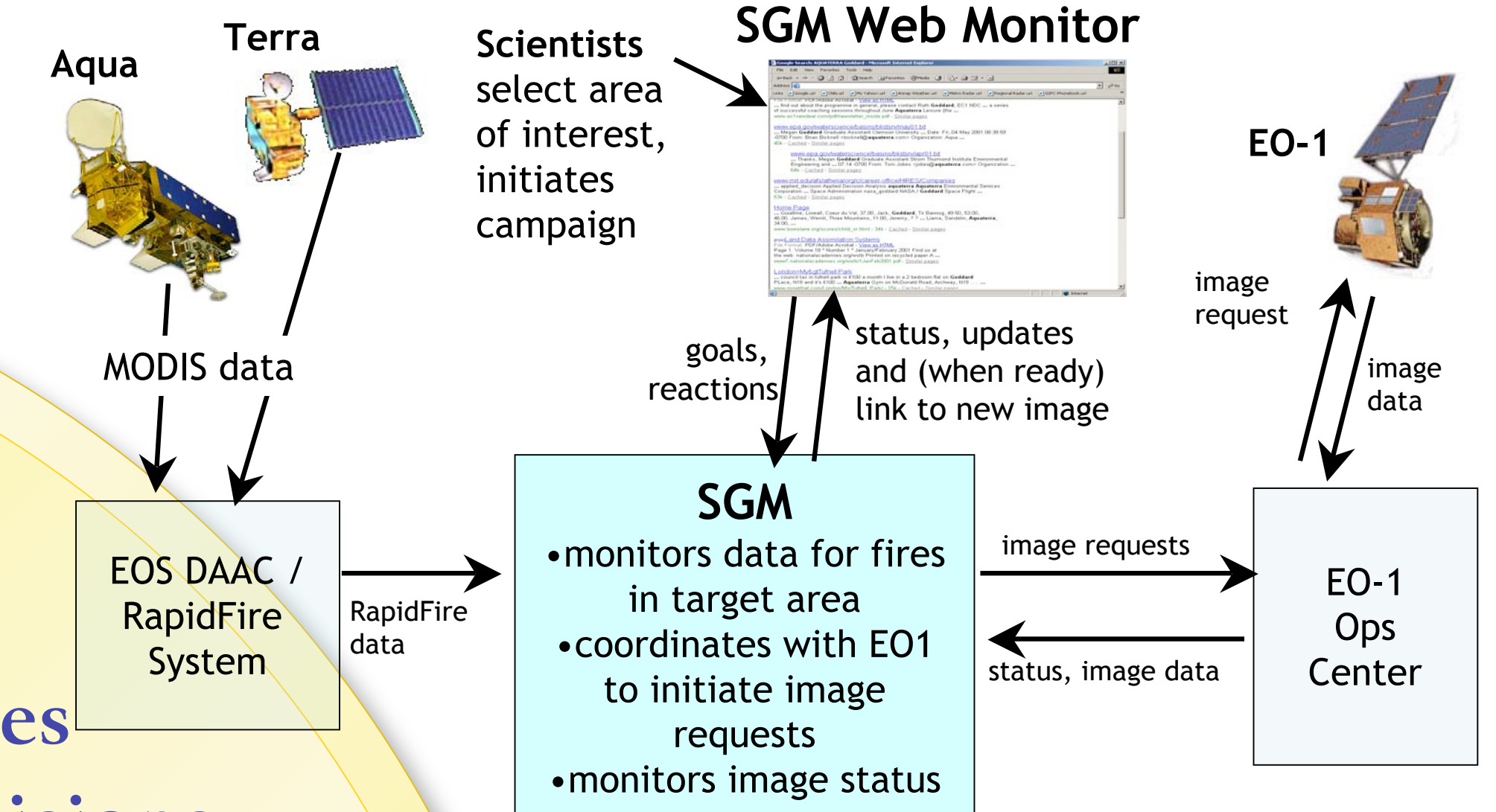
The MERS physical environment is a 30' X 40' area that emulates Mars, including variegated sand/rock, dunes, eroded sedimentary scarp, alluvial washouts, volcanic remnants and an impact crater.



MERS provides a landscape for the development of intelligent control strategies for heterogeneous groups of robotic vehicles on difficult terrains.

Vision

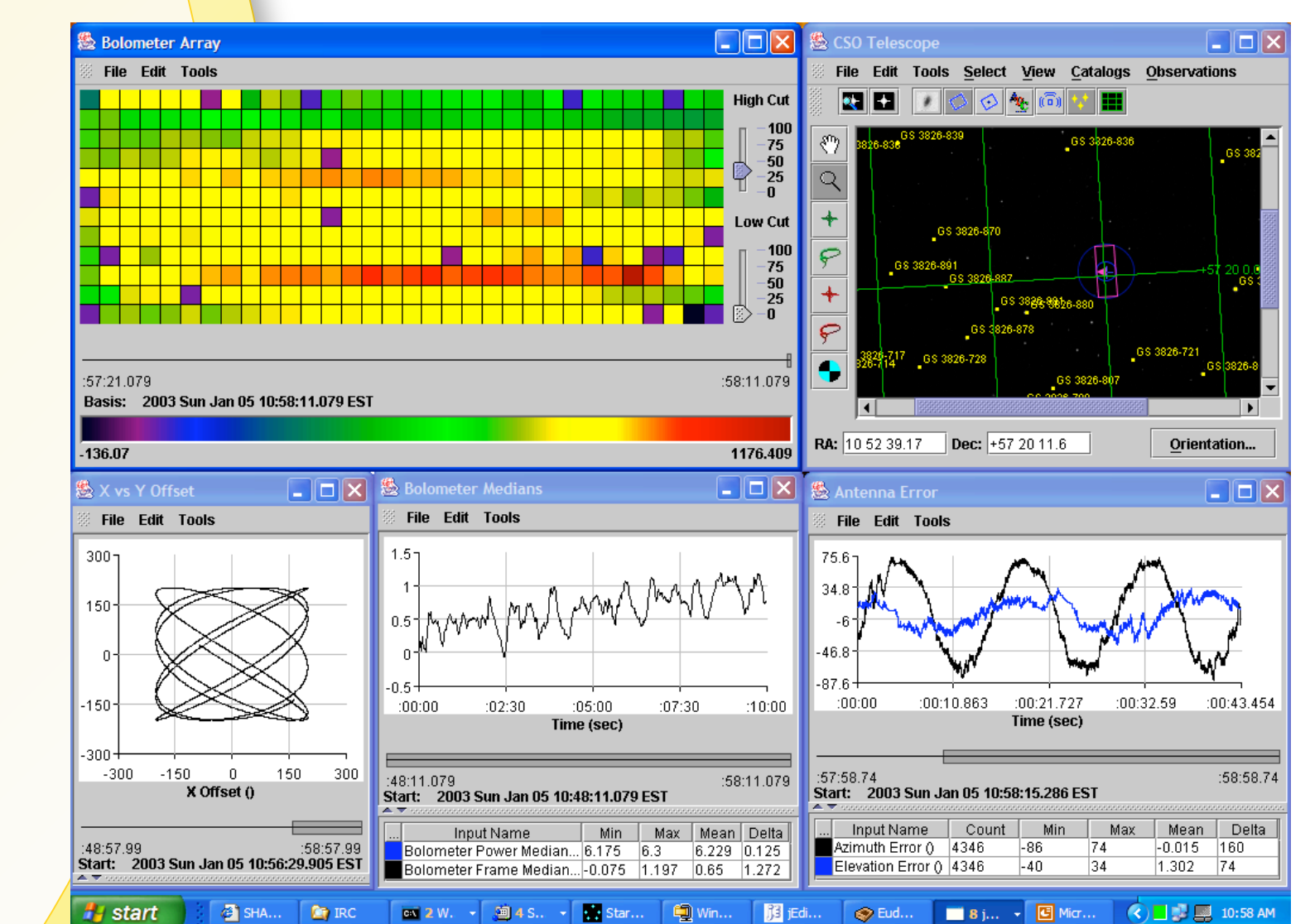
Build Knowledge and Infrastructures Necessary to Support Missions and Decisions that will Enable Earth Science, Space Science and Planetary Exploration by Teams of Humans and/or Robots



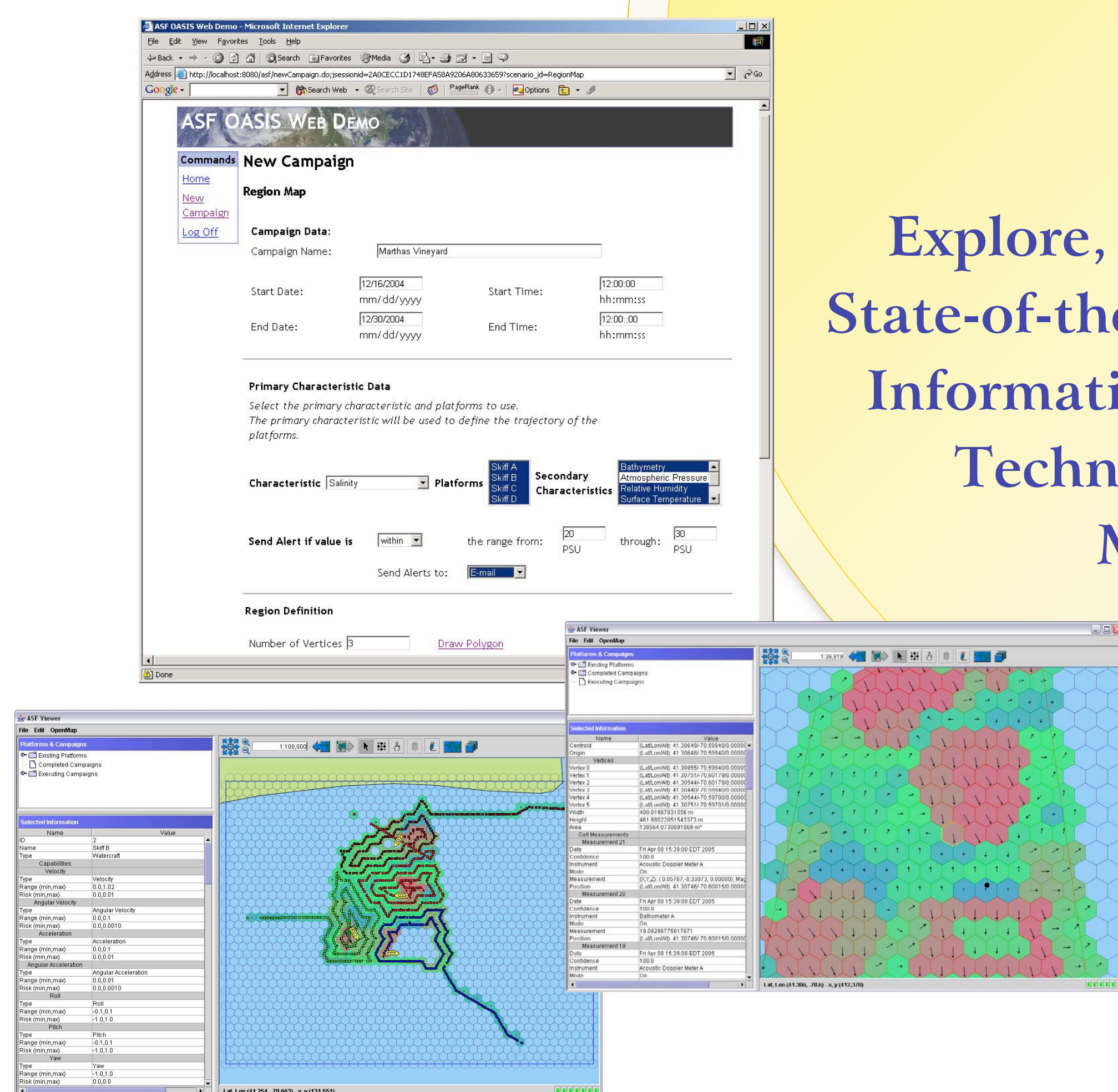
SGM – Rapid Fire/EO-1 Prototype

Mission

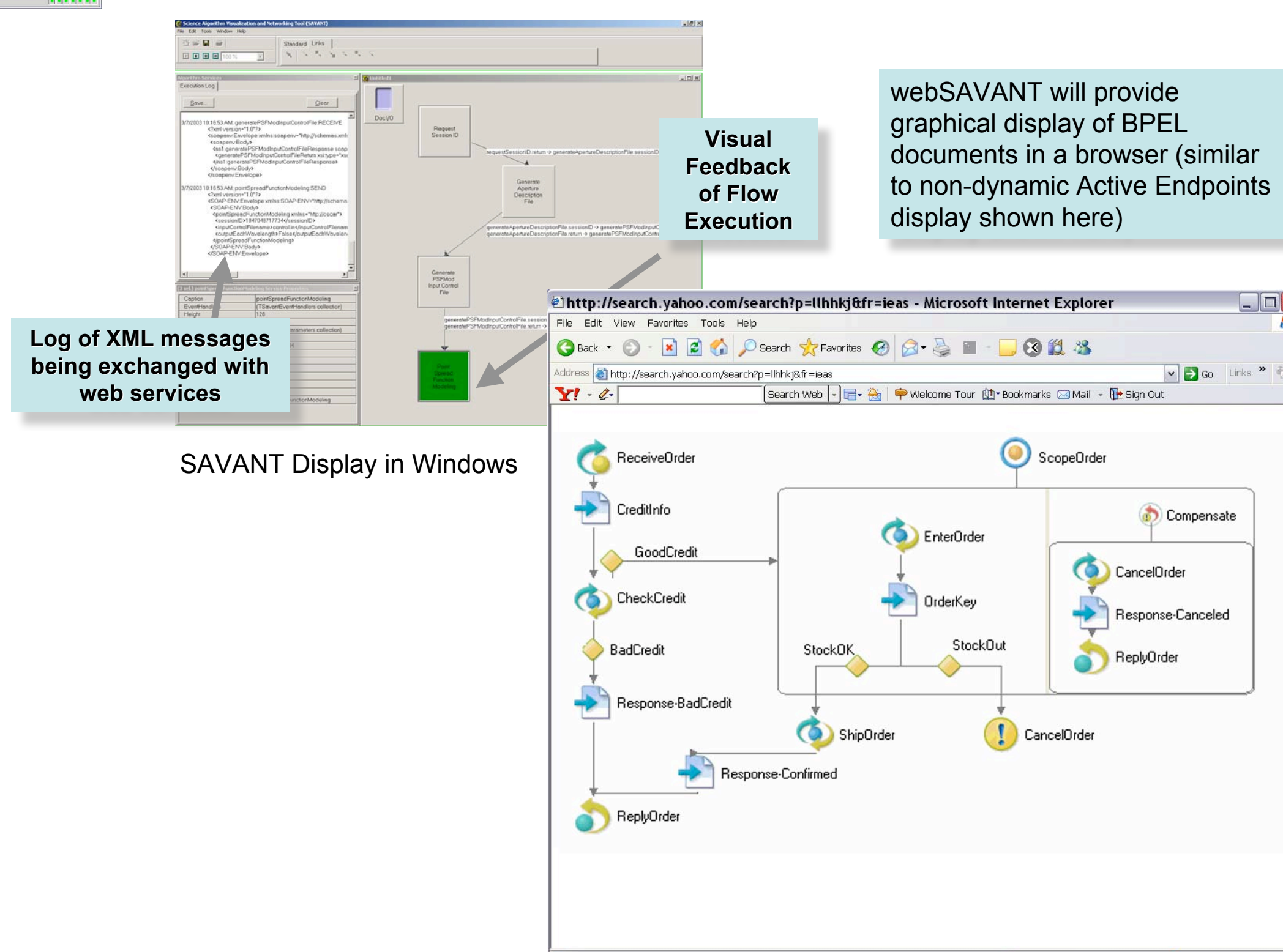
Explore, Assess, Adapt, Develop, and Infuse State-of-the-Art and Innovative Next Generation Information Science and Information Systems Technologies that Address the Needs of Multiple GSFC Missions and NASA Enterprises



IRC SHARC II Display



ASF Web Client and Monitor



SAVANT/webSAVANT Displays

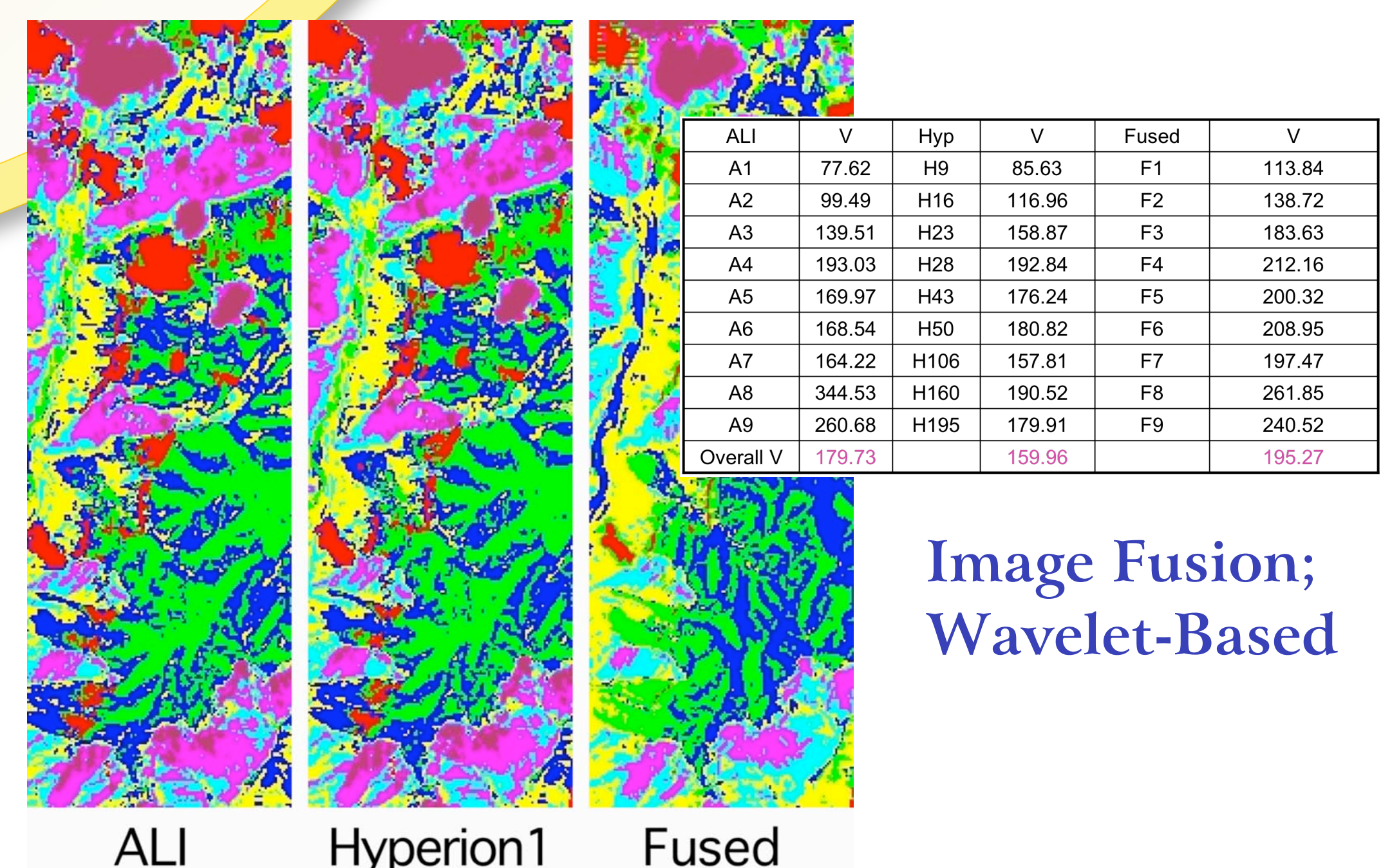


Image Fusion; Wavelet-Based